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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/816,569	04/01/2004	Arman Gasparyan	4-20-11-6	1230	
7590 12/03/2004		•	EXAM	EXAMINER	
Lucent Technologies Inc.			LEE, KYUNG S		
Docket Administrator - Room 3J-219 101 Crawfords Corner Road			ART UNIT	PAPER NUMBER	
Holmdel, NJ (07733-3030		2832	2832	
		·	DATE MAILED: 12/03/2004	DATE MAILED: 12/03/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/816,569	GASPARYAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kyung S. Lee	2832				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 06.	<u>July 2004</u> .					
2a) ☐ This action is FINAL. 2b) ☑ Th	is action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on 01 April 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	a) \square accepted or b) \square objected to to education density accepted to the drawing (s) be held in abeyance. See action is required if the drawing (s) is objection.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 1104. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Art Unit: 2832

DETAILED ACTION

Claim Objections

1. Claims 5 and 6 are objected to because of the following informalities: Claim 6 should separated from claim 5. Please see claim 5, line 4. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Kondoh et al. (6,323,447).

Kondoh et al. teaches and electrical switch comprising:

- a first conducting droplet 321 (figs. 8 and 9) having a first voltage;
- a second conducting droplet 322 having a second voltage;
- a means 311 (comprising of 311 and 312) for reversibly contacting the first and the second droplet by providing a voltage differential (to line I1 and I2) to a first electrode 351 and a second electrode 352.

Regarding claim 3, the first electrode 351 is electrically insulated from the first droplet.

Regarding claim 4, second voltage provided to a second electrode 352. The second electrode 352 is electrically insulated from the second droplet.

Regarding claim 5, the means for reversing 311 is a heat source (heated by electrode 351).

Application/Control Number: 10/816,569 Page 3

Art Unit: 2832

Regarding claims 6-8, a first fluid 381 surrounds 321 and a second fluid 382 surrounds 322 (fig. 9).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondoh et al. Kondoh et al. teaches the claimed invention except for the method of using the switch device.

 Steps of use as claimed are deemed obvious in view of the functions of the structure in the combination discussed above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyung S. Lee whose telephone number is (571) 272-1994. The examiner can normally be reached on M-TH 5:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2832

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kyung S. Lee

Primary Examiner Art Unit 2832

11/27/04